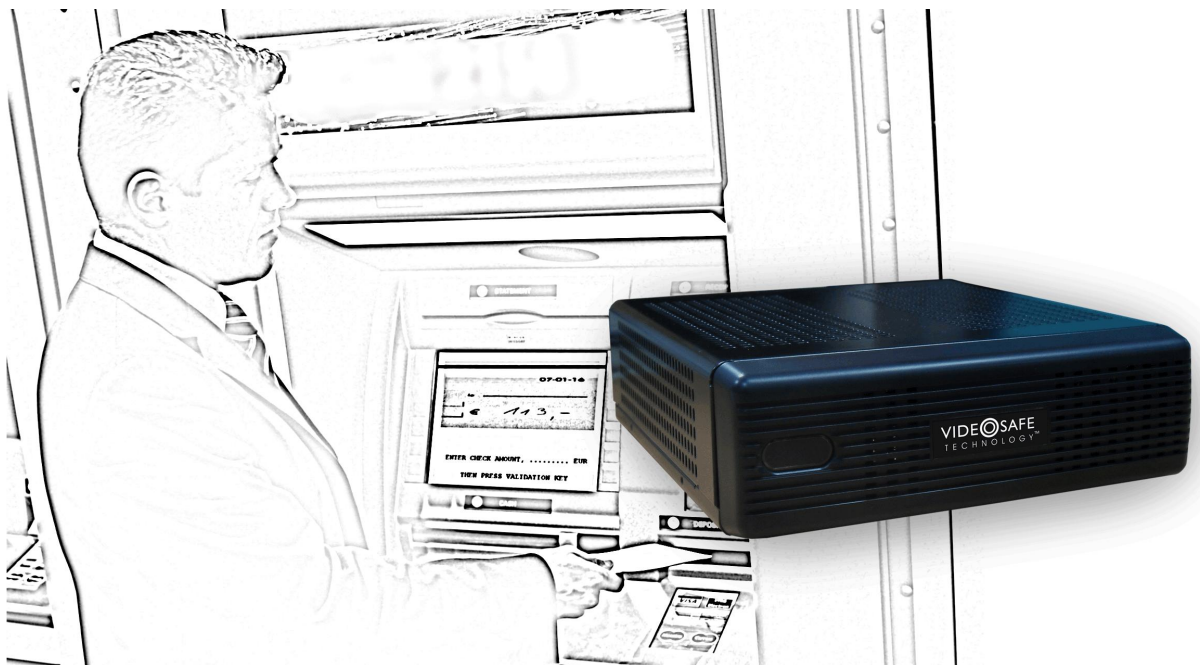


# VX ATM

## Installation and user guide



Video recording and ATM function unit

ENGLISH



## INDEX

<b>1</b>	<b>FUNCTIONALITY .....</b>	<b>2</b>
<b>2</b>	<b>CAMERAS INSTALLATION .....</b>	<b>3</b>
<b>3</b>	<b>ATM CONNECTION TO THE VX-ATM.....</b>	<b>4</b>
<b>4</b>	<b>ATM FUNCTIONALITY CONFIGURATION.....</b>	<b>7</b>
4.1	ATM EVENTS.....	8
4.2	CHECKING THE POS INSTALLATION .....	9
4.3	LIVE VIDEO .....	9
4.4	INFORMATION SEARCH IN RECORDING VIDEO .....	10
<b>5</b>	<b>APPENDIX 1 – TECHNICAL SPECIFICATIONS .....</b>	<b>12</b>

# 1 Functionality

A unit with ATM function can link images to the transactions generated by the ATM, both live video and recording video.

The functionality is available for local and remote interface. The units are compatible with the Supervisor VS for video functionality.

## Images associated with ATM

One of the main features is the searching simultaneously of data and images. The searching can cover different days, you have to enter the transaction data or request an intelligent word search.

The storage of the data that is generated by the ATM besides the recording video allows you to export video synchronized with the data.

## Connections

The connection to the ATM is made through the VX-ATM's network connection is also possible to connect to the ATM from the USB unit's port to the ATM's serial port.

## Events and alarms

One feature is the possibility of using key text strings or any incoming text string to generate events or alarms on the cameras associated to the ATM. With the events and alarms you can mark the video, generate relay activations, and send alarms.

The alarms can be sent via e-mail (alarm frames: VAV) or can be notified to up to two Supervisor VS. The alarm sent by email includes in the subject the key text that has generated the ATM alarm.

As video recording unit has real time video recording with data transmission to one or several users.

**For further information about the unit's features as video recording please consult the user manual at [www.visual-tools.com](http://www.visual-tools.com).**

## Unit package contents

Please check that the following items are included in it:

- Required model
- USB mouse
- External power supply 12V 5A
- RJ45 cable for TCP/IP communications
- RS-232 USB converter.
- User manual.

## 2 Cameras installation

You can use any camera, PAL or NTSC depending on the VX-ATM model. Bear in mind that the unit will records the camera signal being recommend colour cameras with good signal level and clarity.

The cameras can be used for surveillance and transaction recording. The VX-ATM associates the operating person to the transaction, allowing identifying any issue.

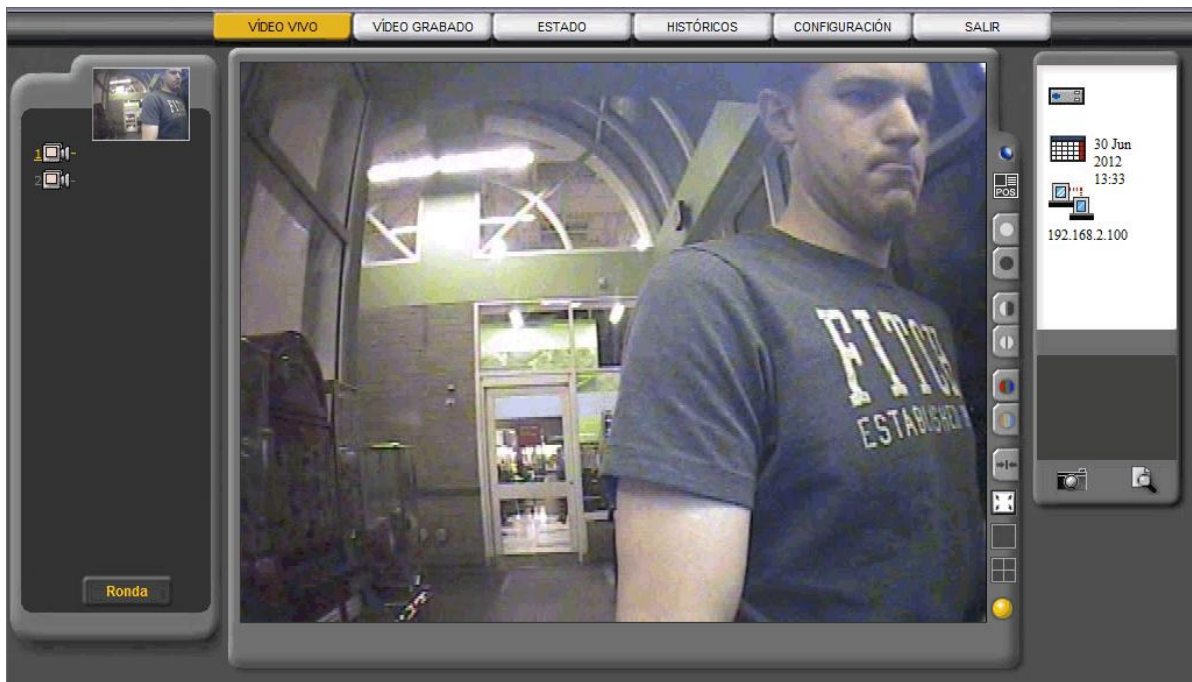
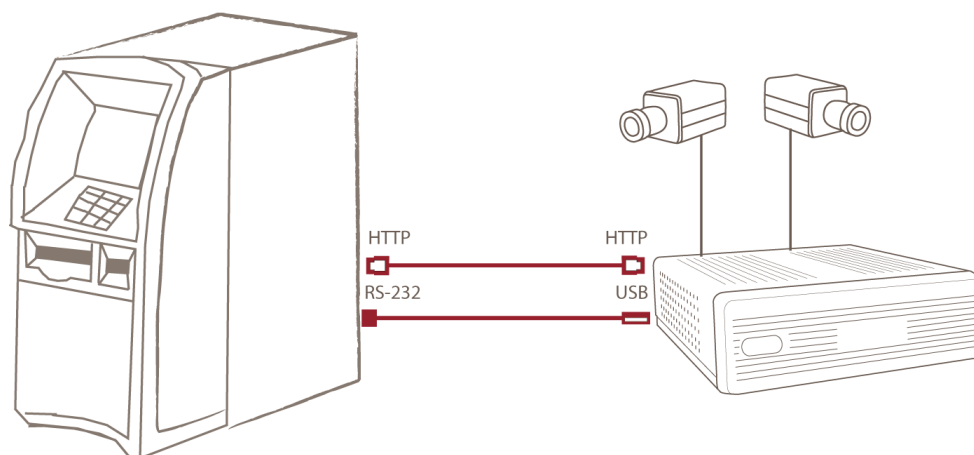


Figure.- 1 Camera showing ATM vision

### 3 ATM connection to the VX-ATM

The connection between the ATM and the VX-ATM is done through the local network cable or from the ATM serial port to the unit USB port.

ESQUEMA DE CONEXIÓN DIRECTA POR HTTP Ó PUERTO SERIE



#### 1.- Connection through local network, HTTP connection.

1. The connection is being made through a network cable between the ATM and the VX-ATM unit.
2. The ATM must have integrated the **POS-HTTP data transmission protocol** supplied by the **manufacturer** of the VX-ATM units. For this process it is necessary that the ATM software manufacturer integrates the POS-HHTTP protocol in the ATM this way the machine can transfer transactions to the VX-ATM through the local network.
3. The VX-ATM has a **specific key** for this protocol, the ATM must have this key configured to communicate.
4. The ATM has an ID that has to be defined in the VX-ATM unit, in the *Configuration/POS* screen.

For further information please contact to the support department:

- Phone: +34 917 294 844
- Email: [soporte@visual-tools.com](mailto:soporte@visual-tools.com)

#### 2.- Connection through ATM serial port.

The ATM has to send the texts through a RS232 serial line. To connect the RS232 to the VX-ATM unit it is necessary to use a RS232-USB adapter provided by the manufacturer.

## Configuration:

1. The ATM **serial port** has to be configured as follows:
  - .- Bits per second: 9600
  - .- Data bits: 8
  - .- Parity: None
  - .- Stop bits: 1
  - .- Flow control: None
2. Features of the text sent:
  - .- The characters must be coded in ANSI format.
  - .- Each line must finish with a CR.
  - .- Not all the ANSI characters are supported. These are the characters admitted by the protocol:  

[Space]  
[Return line]  
1234567890  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
ÁÉÍÓÚ áéíóú  
, . ; : ? ! = ( ) + - / \$ " # @ \_ < > & %
3. VX-ATM: Select the POS protocol to use in the Configuration/POS windows, for further information please consult the chapter five.
  - .- Connection type: Select USB ports
  - .- POS protocol: Select **SIDG**.

With this configuration the VX-ATM shows in the video the text strings as are received, the unit adds at the beginning of each line the hour's text reception.

It saves the text labelled with the reception date and time internally, so it is possible to search by date and text, and combine it to the correspondent video.

The unit dispose of 2 USB ports at the rear to connect to the ATM; this is the order of the ports for the USB-RS232 connections:

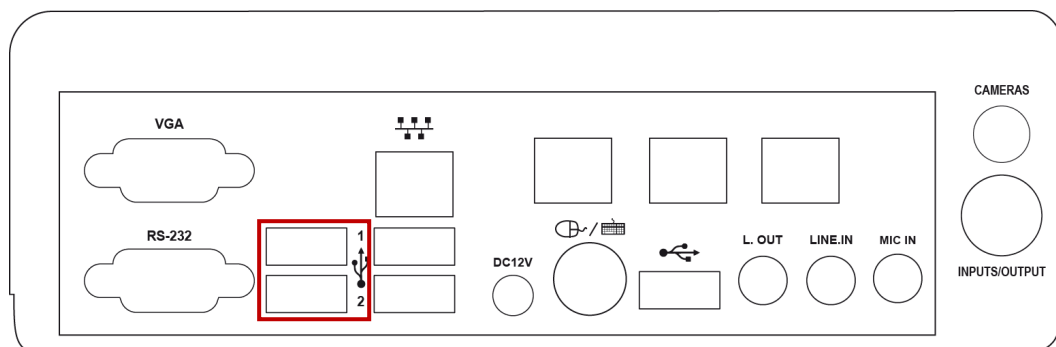
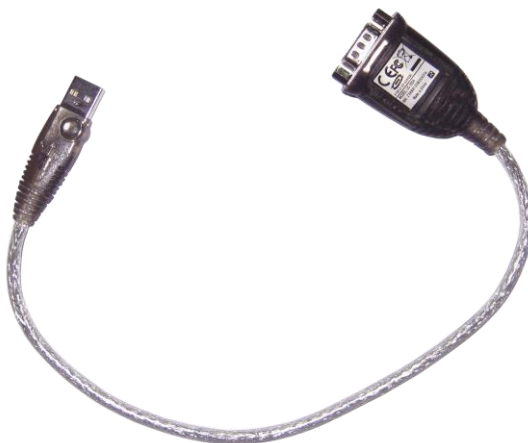


Figure.- 2 Unit rear

The unit includes a RS232-USB converter. In case that you need to connect a second ATM you need to order an additional cable.



**Figure.- 3 RS232 – USB converter**

The units have two **digital inputs** that are wired up to a DB9 connector with the following diagram:

1	Input 1
2	GND
3	Input 2
4	GND
5	-
6	-
7	NC
8	Common
9	NA



## 4 ATM functionality configuration

Each ATM based unit has 1 HTTP connection and 2 USB ports. To configure the connections on the VX-ATM unit it is necessary to access as Administrator user.

**Note:** In the configuration interface the ATM connections are shown as POS (Point of sale), bear in mind that for all purposes the terms are equivalent.

In the Configuration tab select the POS section, the following window will appear.

Point Of Sale - POS	Last connection state	POS protocol	HTTP Id	Camera	Recording		Configured
					Time-lapse recording	Event	
pos1		sidg	0780003	Optica 2-8	2 ips / 2 ips	8 ips / POS	✓
pos2		sidg	2	None	-- / --	-- / --	✗
pos3		sidg	3	None	-- / --	-- / --	✗
pos4		sidg	4	None	-- / --	-- / --	✗

ips (working hours): 10.4      ips (non-working hours): 10.4

Connection type: ☐ USB ports ☐ USB hubs ☒ HTTP

Logs: customer      Text overlay: ☒

POS EVENTS      SAVE

Figure.- 4 ATM configuration window

In this window you can configure the ATM connection to the unit. For the ATM function is running and active it's necessary to configure the camera recording frequency (either time-lapse or event) and select the camera associated to the ATM in the Configuration/POS screen.

**Point of Sales:** – POS: ATM ID.

**Last connection state:** It shows the connection status by the icon status.

- **Connected** , the cable is connected properly, it has a camera assigned and a recording frequency.
- **Offline** the cable is connected properly but it doesn't have a camera assigned or a recording frequency.
- **Off** is neither connected nor active.

**POS protocol:** This is the communication protocol between the ATM and the VX-ATM by default SIDG.

**HTTP Id:** ATM ID when the HTTP protocol is used.

**Camera:** camera assigned to the ATM.

**Time-lapse recording:** Camera recording frequency in working hours and non working hours.

**Configured:** It shows whether the connection to the ATM is running or is stopped.

In the lower part you can choose the different types of connection for the ATM.

- USB ports. Direct connection to the USB ports.
- USB hubs. This option is not available for the ATM.
- HTTP. The ATM data entry can be done through a network connection between the ATM and the VX-ATM, for that purpose you need to integrate a specific protocol.

The next item shows the type of transactions that the unit can store along with the recording video.

- Customer: Client ticket print.
- Journal: Detailed information of the ATM use (types of transactions, number of transactions , etc..)

The last option is the text overlay in remote live video and recording video and is checked by default.

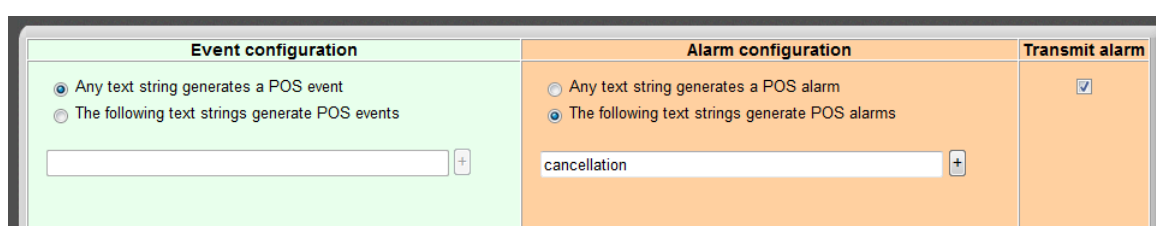
In the VX-ATM units you can record ATM's transactions without time-lapse recording. The Recording section shows what type of recording frequency has each camera. If it's only event recording you need to have at least 2 pre-event seconds to guarantee that the video associated to the transaction is properly recorded.

When programming the POS you must press always the **SAVE** button after any connection change and always after connecting a data line.

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## 4.1 ATM events

In the ATM functionality configuration is possible to create events and alarms depending on the information received. Press the POS EVENTS button in the POS configuration window and you will access to this window where you can define the text strings able to generate an event or an alarm.



The screenshot displays the 'ATM events configuration window' with three main sections:

- Event configuration** (light green background):
  - Radio buttons: ☒ Any text string generates a POS event; ☐ The following text strings generate POS events.
  - A text input field with a '+' button.
- Alarm configuration** (light orange background):
  - Radio buttons: ☐ Any text string generates a POS alarm; ☒ The following text strings generate POS alarms.
  - A text input field containing 'cancellation' with a '+' button.
- Transmit alarm** (light orange background):
  - A checkbox labeled 'Transmit alarm' which is checked.

**Figure.- 5 ATM events configuration window**

Apart from the use of key text strings is possible to use any incoming text string to generate events or alarms.

When a ATM receive any of the defined words it generates an event / alarm than can be consulted in the recorded video, there is also just for an alarm, the possibility of sending a VAV with associated images.

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## 4.2 Checking the POS installation

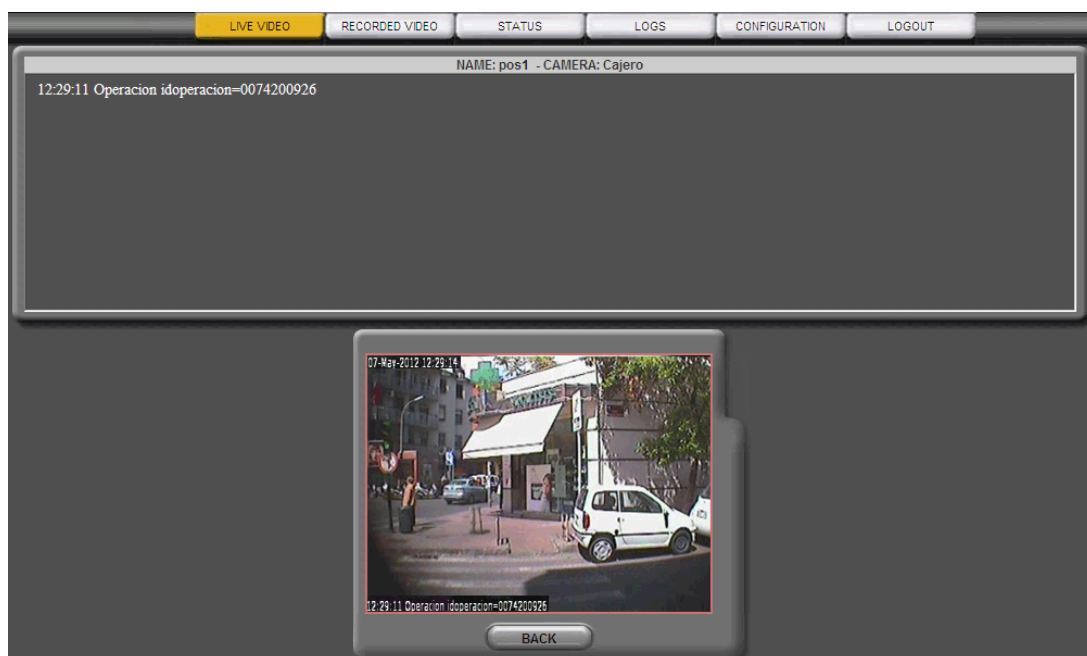
Visualization checking:

1. Connect remotely to the unit through an Internet Explorer or connect locally.
2. Log in with a user able to watch live video.
3. Select the camera associated to the POS.
4. Press the POS button to access the window where you can see the transactions received by the POS that it associated to the selected camera.

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## 4.3 Live video

In the live video screen, both local and remote you can watch the transactions that the VX-ATM unit is receiving, select the camera associated to the ATM and press the  icon, a new window will appear with the viewer transaction at the top and the video viewer on the bottom.



**Figure.- 6 ATM live video screen**

To come back to the live video screen press the BACK button.

## 4.4 Information search in recording video

The information that the ATM gets is associated to the recording video, you can access the recording video screen to search for transactions.

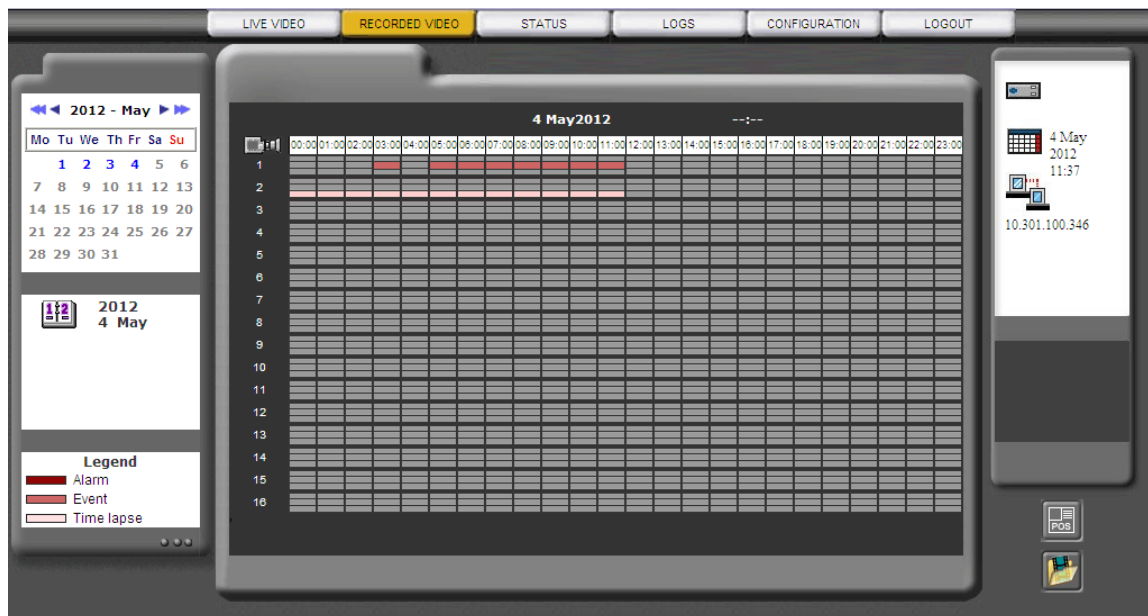



Figure.- 7 recording video screen

Press in the  icon to open the search screen.

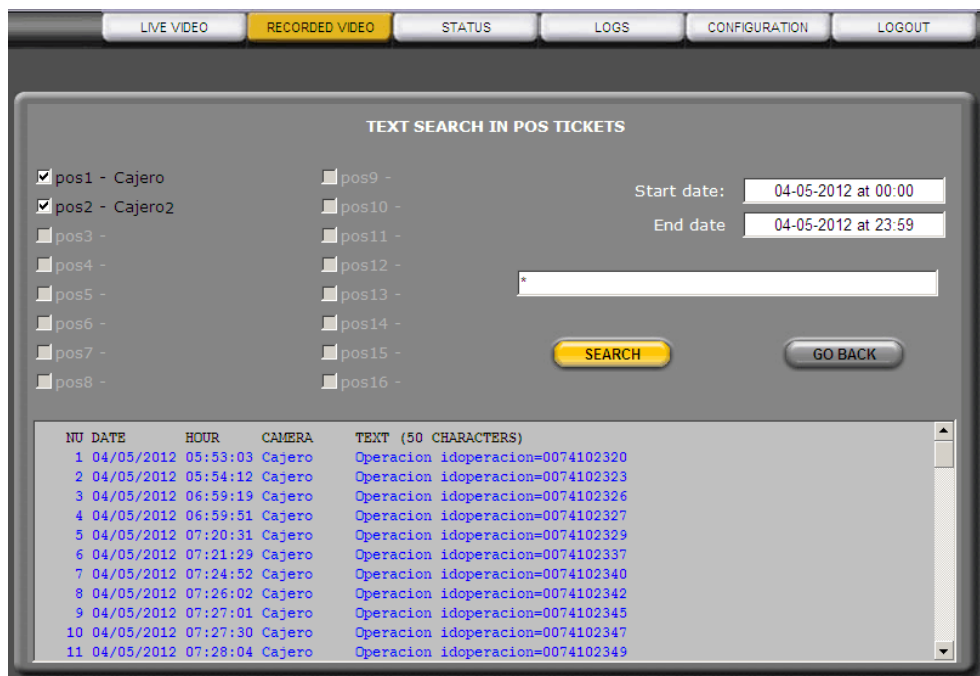
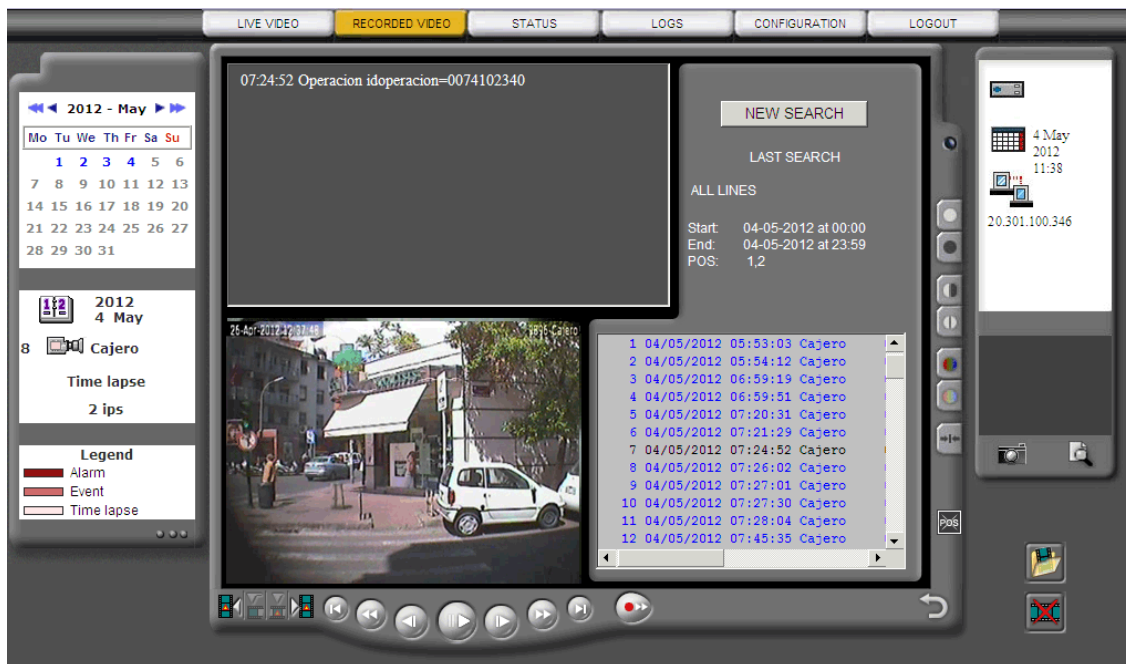


Figure.- 8 Transaction search screen

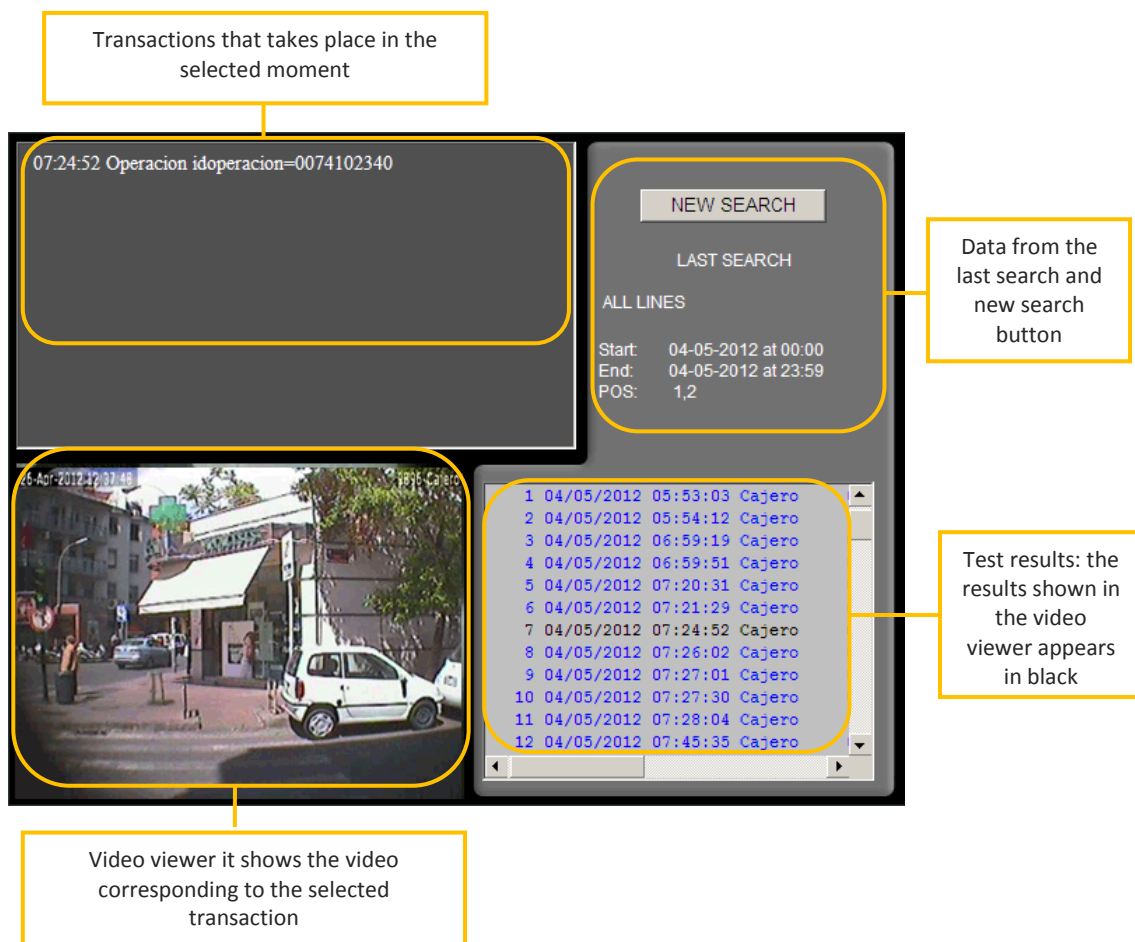
Select the POS device (ATM device) where you want to make the search, set a starting and final date, write the text screen to search and press the SEARCH button.

At the bottom window appears the transactions that match the searching text string. It appears in blue the transactions that can be selected, the ones in grey doesn't have video associated.



**Figure.- 9 Search result screen**

When you select a transaction it appears the following areas.



From this window you can select other transaction from the searching panel and make a new search, press in the NEW SEARCH button to come back to the transaction searching screen.

For further information please contact the support department:

By phone: +34 91 729 48 44

By e-mail: [soporte@visual-tools.com](mailto:soporte@visual-tools.com)

## 5 Appendix 1 – Technical specifications

MODELS:	VXATM: DVR of 2 cameras and 2 ATM.
OPERATOR WORKSTATION:	Local interface for a VGA monitor Remote access via WEB browser from any PC with MS Internet Explorer or with the Supervisor VS reception and management software. Different user levels password-protected. Multiple user login.
COMMUNICATION:	Web server over TCP/IP with Ethernet internal adapter and RJ45 connector. Automatic management for Internet connections with dynamic IP address. Automatic time synchronisation with a configurable NTP Server.
VIDEO INPUTS:	2 PAL or NTSC video inputs (according to the model)
ALARM INPUTS:	2 inputs for dry contacts. Customisable alarm input titles and polarity inversion from the configuration interface.
RELAY OUTPUTS:	1 relay output with NO/NC contact. 24V 1A switch power. Manual activation by the operator or configurable to indicate ATM event/ATM alarm. Customizable relay output titles from the configuration interface.
VIDEO OUTPUT	1 VGA output for local interface.
ATM TERMINAL CONNECTION:	ATM transaction reception through local network. The data can be received from the ATM serial port; in this case the connection must be made by using a kit that includes a USB adapter to RS232 port. One kit per ATM.
RECORDING OF TRANSACTIONS:	Recording of transactions from up to ATM terminals synchronized with the associated video cameras. Recorded video searching with key-word search motor. Simultaneous playback of video and the associated transactions.
CAPTURE AND COMPRESSION:	PAL resolution: 640 x 480. 4 configurable and independent quality levels for live and recorded video. MPEG standard compression. Compression size: 12 KB for very high quality, 9KB for high quality, 5 KB for medium quality and 3KB for low quality per image.
TRANSMISSION:	Transmission of up to PAL 25 ips/ NTSC 30 ips depending on the available bandwidth and the recording configuration. Simultaneous transmission and recording.
ALARM TRANSMISSION:	Sending of alarm images via e-mail and/or alarm notification to up to 2 Supervisor VS posts.
RECORDING:	Hard disk recording. Different capacities. PAL 50 ips / NTSC 60 ips for recording at any quality. Simultaneous recording from different cameras and simultaneous recording and playback. Automatic deletion of the images because of antiquity or hard disk occupation. TIME LAPSE Recording: Configurable calendar and possibility of synchronization with external devices through an alarm input. EVENT Recording: Recording activated by means of the alarm inputs or motion sensors. Configurable recording of up to 30 minutes of pre-alarm and 10 minutes of post-alarm.
VIDEO AND DATA EXPORT:	Video export (MPEG format) including texts of POS to external USB device (hard disk or flash memory).
MOTION DETECTION:	Motion sensors per camera with selectable activation (always/in working hours). Definition of different motion/no motion areas and 3 levels of sensitivity. Smart search of video sequences in local viewer with VMD filters on time-lapse recordings.
PAN TILT ZOOM (PTZ):	Virtual panel for domes control and matrixes from multiple manufacturers through serial port (refer to our dome list in <a href="http://www.visual-tools.com">www.visual-tools.com</a> ). On-Screen control for local video viewer. Go to a preset by an alarm input function.
CONFIGURATION:	Menu for the configuration with user level password-protected. Local or remote software updating.
POWER SUPPLY:	External power supply UL, CSA, FCC and CE marked. Voltage: 110/220 Vac. 12v 5A, 50/60Hz. Connector diameter 2.5 mm. Nominal consumption: 60W.
PHYSICAL DATA:	Weight: 1800 g. Width x Height x Depth: 192 mm x 65 mm x 220 mm.
CERTIFICATES:	CE.



# VX-ATM

## Installation and User Guide

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